[Neural-Networks-Assignment](https://github.com/sailikhit0920/Neural-Networks-Assignment-3)-ICP3

Github link: https://github.com/sailikhit0920/Neural-Networks-Assignment-3

Video link: https://www.loom.com/share/3fc7aa1bccf44f4687a8feca0c4a4072

1. Show the basic statistical description about the data:

A screenshot of a computer

Description automatically generated

* 1. Check if the data has null values.
     1. Replace the null values with the mean

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* 1. Select at least two columns and aggregate the data using: min, max, count, mean.

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Filter the data frame to select the rows with calories values between 500 and 1000

A screenshot of a calories chart

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Filter the data frame to select the rows with calories values>500 and pulse <100

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Create a new “df\_modified” dataframe that contains all the columns from df except for “Maxpulse”.

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1. Delete the “Maxpulse” column from the main df data frame

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1. Convert the data type of Calories column to int datatype.

A white rectangular sign with colorful text

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Using pandas create a scatter plot for the two columns (Duration and Calories).

A screen shot of a graph

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Linear Regression:

1. Import the given “Salary\_Data.csv”

Split the data in train\_test partitions, such that 1/3 of the data is reserved as test subset

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A screenshot of a computer

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1. Train and predict the model.
2. Calculate the mean\_squared error

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Visualize both train and test data using scatter plot.

A screen shot of a graph

Description automatically generated